VOL. 36. INDEX.

Fasc. 1—2. (24. III. 1956.)

Pag.

Survival and Function of Auto- and Homografts of Adenohypophysial Tissue in the Toad, Bufo Bufo (L.). By D. JACOBSOHN and C. BARKER JØRGENSEN 1

Tubular Excretion of Histamine in the Hen. By K. M. LINDAHL and I. SPERBER 13

On the Permeability of Guinea Pig Placenta for Thyroxine. By L. HIRVONEN and H. LYBECK 17

Accelerated Rate in Isolated Auricle of Rat Treated with Triiodothyronine and its Azo Derivatives. By L. HIRVONEN and H. LYBECK 23

Mechanogram Observations on the Isolated Auricle of Hypothyroid Rat. By L. HIRVONEN and H. LYBECK 29

Temperature Range of the Spontaneous Activity of the Isolated Hedgehog, Hamster and Rat Auricle. By L. HIRVONEN 38

Acetylcholine Splitting Enzymes in Salivary Glands after Prolonged Treatment with Pilocarpine and an Atropine-Like Substance. By B. C. R. STRÖMBLAD 47

Observations on the Metabolism of Arctic Ground Squirrels (Citellus Parryi) at Different Environmental Temperatures. By H. ERIKSON 66

The Body Temperature of Arctic Ground Squirrels (Citellus Parryi) at Varying Environmental Temperature. By H. ERIKSON 75

Observations of the Body Temperature of Arctic Ground Squirrels (Citellus Parryi) during Hibernation. By H. ERIKSON 79

Reproduction Capacity of Rats in Relation to Diet. 3. Influence of Diets Containing no Added Fat with and without Vitamin E and Certain Artificial Antioxidants. By F. CHRISTENSEN and H. DAM 82

Reproduction Capacity of Rats in Relation to Diet. 4. Influence of Diets Containing No Fat, Lard Freed from Tocopherol, and of Vitamin E and Methylene Blue. By F. CHRISTENSEN, H. DAM and R. S. GORTNER 87

Reproduction Capacity of Rats in Relation to Diet. 5. Absence of Influence of High Casein and Addition of Vitamin B_{12} on Vitamin E Deficient Diets. By F. CHRISTENSEN and H. DAM 97

Pag.

Studies in Calcium Metabolism in Rats. I. A Long Term Study in Rats Given an Optimal Diet with and without Vitamin D. By R. HAAVALDSEN and R. NICOLAYSEN 102
Studies in Calcium Metabolism in Rats. II. The Interaction of Vitamin D and the Endogenous Factor. By R. HAAVALDSEN, K. MORTENSEN EGNUND and R. NICOLAYSEN 108
Studies in Calcium Metabolism in Rats. III. The Adaptation to low Ca Intakes of old Rats. By R. NICOLAYSEN 114
The Utilization of D-Valine for Growth in Rats. By A. WRETLIND 119
Supersensitivity and Amine Oxidase Activity in Denervated Salivary Glands. By B. C. R. STRÖMBLAD 137
Tyramine as a Secretory Agent in the Submaxillary Gland of the Cat. By B. C. R. STRÖMBLAD 154
Amine Oxidase in Salivary Glands after Prolonged Treatment with Pilocarpine or an Atropine-like Substance. By B. C. R. STRÖMBLAD 158
Sensitization of the Lachrymal Gland by Treatment with a Parasympaticolytic Agent. By N. G. EMMELIN and B. C. R. STRÖMBLAD 171
Functional Organization of the Dorsal Spino-Cerebellar Tract in the Cat. I. Recording of Mass Discharge in the Dissected Flechsig's Fasciculus. By Y. LAPORTE, A. LUNDBERG and O. OSCARSSON 175
Functional Organization of the Dorsal Spino-Cerebellar Tract in the Cat. II. Single Fibre Recording in Flechsig's Fasciculus on Electrical Stimulation of Various Peripheral Nerves. By Y. LAPORTE, A. LUNDBERG and O. OSCARSSON 188
Functional Organization of the Dorsal Spino-Cerebellar Tract in the Cat. III. Single Fibre Recording in Flechsig's fasciculus on Adequate Stimulation of Primary Afferent Neurons. By Y. LAPORTE and A. LUNDBERG 204

Fasc. 3. (18. V. 1956.)

Generalized Inhibition of the Retinal Ganglion Cells in Relation to Wave-Length and State of Adaptation. By E. DODT..... 219
Water Permeability of the Isolated Stomach of the Mouse. By K. J. ÖBRINK 229
Lack of Effect of Oxygen Tension upon the Permeability of the Guinea Pig Placenta to d(+)xylose and Sorbose. By M. J. KARVONEN, A. LAAMANEN and N. RÄIHÄ 245
The Plasminogen Activator in Animal Tissue. By T. ASTRUP and I. STERNDORFF 250
The Effect of Posture upon the Equilibrium between Carbon Monoxide in Rebreathed Gas and the Carboxy Hemoglobin Concentration of the Blood. By H. DAHLSTRÖM 256

Pag.

Neurotropic Effects of Substance P. By U. S. v. EULER and B. PERNOW 265
Histochemical Demonstration of AChE Activity in Isolated Nerve Cells. By E. GIACOBINI 276

Fasc. 4. (31. V. 1956.)

Permeability of Human Placenta to Glucose, Fructose, and Xylose. By N. G. HOLMBERG, B. KAPLAN, M. J. KARVONEN, J. LIND and M. MALM 291
Oxygen Consumption and Active Sodium Transport in the Isolated and Short-Circuited Frog Skin. By K. ZERAHN..... 300
Influence of Varied Levels of Peanut Oil and Cholesterol on Cholesterol and Polyenoic Acids in Tissues of the Chicks. By H. DAM, G. KRISTENSEN, G. KOFOED NIELSEN, I. PRANGE and E. SØNDERGAARD 319
Alimentary Production of Gallstones in Hamsters. 6. Disappearance of Cholesterol Stones by Treatment with a Non-lithogenic Diet. By F. CHRISTENSEN, H. DAM and G. KRISTENSEN 329
A Mathematical Analysis of Indicator Dilution Curves Leading to Direct Calculation of the Systolic and Diastolic Volumes of the Left Ventricle and Auricle and of the Pulmonary Blood Volume. By S. COMÉT and H. O. LAGERLÖF..... 337
An Extended Analysis of Indicator Dilution Curves, Leading to Direct Calculation of the Pulmonary Blood Volume and the Blood Volume in the Left Heart even in the Presence of Aortic and Mitral Regurgitation. By S. COMÉT and H. LAGERLÖF... 348
Content and Intracellular Distribution of Adenosine Triphosphate in Cow Adrenal Medulla. By B. FALCK, N.-Å. HILLARP and B. HÖGBERG 360
An Attempt to Condition Hypothalamic Polydipsia. By B. ANDERSSON and S. LARSSON 377
Cholinesterases of Mice in Relation to Sex and Age. By K. H. SKRAMSTAD 383

Supplementum 123. Mucous Flow and Ciliary Activity in the Trachea of Healthy Rats and Exposed to Respiratory Irritant Gases. By TORE DALHAMN.
Supplementum 124. Anatomical and Physiological Studies of Knee Joint Innervation in the Cat. By STEN SKOGLUND.

INDEX AUCTORUM.

Pag.

ANDERSSON, B. and S. LARSSON, Attempt to Condition Polydipsia 377
ASTRUP, T. and I. STERNDORFF, Plasminogen Activator 250
CHRISTENSEN, F. and H. DAM, Reproduction Capacity of Rats. 3. 82
CHRISTENSEN, F., H. DAM and R. A. GORTNER, Reproduction Capacity of Rats. 4. 87
CHRISTENSEN, F. and H. DAM, Reproduction Capacity of Rats. 5. 97
CHRISTENSEN, F., H. DAM and G. KRISTENSEN, Production of Gallstones in Hamsters. 6. 329
COMÉT, S. and H. O. LAGERLÖF, Systolic and Diastolic Volumes of the Left Ventricle and Auricle and of the Pulmonary Blood Volume 337
COMÉT, S. and H. LAGERLÖF, Calculation of Pulmonary Blood Volume in Aortic and Mitral Regurgitation 348
DAHLSTRÖM, H., Posture and Equilibrium between Carbon Monoxide and Carboxy Hemoglobin Concentration..... 256
DAM, H., and F. CHRISTENSEN, Reproduction Capacity of Rats. 3. 82
DAM, H., F. CHRISTENSEN and R. A. GORTNER, Reproduction Capacity of Rats. 4. 87
DAM, H., and F. CHRISTENSEN, Reproduction Capacity of Rats. 5 97
DAM, H., G. KRISTENSEN, G. KOFOED NIELSEN, I. PRANGE and E. SØNDERGAARD, Cholesterol and Polyenoic Acids in Tissues 319
DAM, H., F. CHRISTENSEN and G. KRISTENSEN, Production of Gallstones in Hamsters. 6 329
DODT, E., Inhibition of the Retinal Ganglion Cells 219
EMMELIN, N. G., and B. C. R. STRÖMBLAD, Sensitization of the Lachrymal Gland 171
ERIKSON, H., Metabolism of Arctic Ground Squirrels 66
ERIKSON, H., Body Temperature of Arctic Ground Squirrels ... 75
ERIKSON, H., Arctic Ground Squirrels during Hibernation..... 79
v. EULER, U. S., and B. PERNOW, Effects of Substance P 265
FALCK, B., N.-Å. HILLARP and B. HÖGBERG, Adenosine Triphosphate in Adrenal Medulla 360
GIACOBINI, E., Histochemical Demonstration of AChE Activity 276
GORTNER, R. A., F. CHRISTENSEN and H. DAM, Reproduction Capacity of Rats. 4 87
HAAVALDSEN, R., and R. NICOLAYSEN, Calcium Metabolism in Rats. I 102
HAAVALDSEN, R., K. MORTENSEN EGNUND and R. NICOLAYSEN, Calcium Metabolism in Rats. II 108
HILLARP, N.-Å., B. FALCK and B. HÖGBERG, Adenosine Triphosphate in Adrenal Medulla 360
HIRVONEN, L., and H. LYBECK, Permeability of Guinea Pig Placenta 17
HIRVONEN, L., and H. LYBECK, Isolated Auricle Treated with Triiodothyronine 23

Pag.

HIRVONEN, L., and H. LYBECK, Isolated Auricle of Hypothyroid Rat 29
HIRVONEN, L., Spontaneous Activity of Isolated Auricle 38
HÖGBERG, B., B. FALCK and N.-Å. HILLARP, Adenosine Triphosphate in Adrenal Medulla 360
HOLMBERG, N. G., B. KAPLAN, M. J. KARVONEN, J. LIND and M. MALM, Permeability of Human Placenta 291
JACOBSOHN, D., and C. BARKER JØRGENSEN, Auto- and Homografts of Adenohypophysial Tissue 1
JØRGENSEN, C. BARKER, and D. JACOBSOHN, Auto- and Homografts of Adenohypophysial Tissue 1
KAPLAN, B., N. J. HOLMBERG, M. J. KARVONEN, J. LIND and M. MALM, Permeability of Human Placenta 291
KARVONEN, M. J., A. LAAMANEN and N. RÄIHÄ, Permeability of Guinea Pig Placenta 245
KARVONEN, M. J., N. G. HOLMBERG, B. KAPLAN, J. LIND and M. MALM, Permeability of Human Placenta 291
KRISTENSEN, G., H. DAM, G. KOFOED NIELSEN, I. PRANGE and E. SØNDERGAARD, Cholesterol and Polyenoic Acids in Tissues 319
KRISTENSEN, G., F. CHRISTENSEN and H. DAM, Production of Gallstones in Hamsters. 6 329
LAAMANEN, A., M. J. KARVONEN and N. RÄIHÄ, Permeability of Guinea Pig Placenta 245
LAGERLÖF, H. O., and S. COMÉT, Systolic and Diastolic Volumes of the Left Ventricle and Auricle of the Pulmonary Blood Volume 337
LAGERLÖF, H., and S. COMÉT, Calculation of Pulmonary Blood Volume in Aortic and Mitral Regurgitation 348
LAPORTE, Y., A. LUNDBERG and O. OSCARSSON, Functional Organization of Dorsal Spino-Cerebellar Tract. I 175
LAPORTE, Y., A. LUNDBERG and O. OSCARSSON, Functional Organization of Dorsal Spino-Cerebellar Tract. II 188
LAPORTE, Y., A. LUNDBERG and O. OSCARSSON, Functional Organization of Dorsal Spino-Cerebellar Tract. III 204
LARSSON, S., and B. ANDERSSON, Attempt to Condition Polydipsia 377
LIND, J., N. G. HOLMBERG, B. KAPLAN, M. J. KARVONEN and M. MALM, Permeability of Human Placenta 291
LINDAHL, K. M., and I. SPERBER, Tubular Excretion of Histamine 13
LUNDBERG, A., Y. LAPORTE and O. OSCARSSON, Functional Organization of Dorsal Spino-Cerebellar Tract. I 175
LUNDBERG, A., Y. LAPORTE and O. OSCARSSON, Functional Organization of Dorsal Spino-Cerebellar Tract. II 188
LUNDBERG, A., Y. LAPORTE and O. OSCARSSON, Functional Organization of Dorsal Spino-Cerebellar Tract. III 204
LYBECK, H., and L. HIRVONEN, Permeability of Guinea Pig Placenta 17
LYBECK, H., and L. HIRVONEN, Isolated Auricle Treated with Triiodothyronine 23

Pag.

LYBECK, H., and L. HIRVONEN, Isolated Auricle of Hypothyroid Rat. 29
MALM, M., N. G. HOLMBERG, B. KAPLAN, M. J. KARVONEN and J. LIND, Permeability of Human Placenta 291
MORTENSEN EGNUND, K., R. HAAVALDSEN and R. NICOLAYSEN, Calcium Metabolism in Rats. II 108
NICOLAYSEN, R., and R. HAAVALDSEN, Calcium Metabolism in Rats. I 102
NICOLAYSEN, R., R. HAAVALDSEN and K. MORTENSEN EGNUND, Calcium Metabolism in Rats. II 108
NICOLAYSEN, R., Calcium Metabolism in Rats. III 114
NIELSEN, G. KOFOED, H. DAM, G. KRISTENSEN, I. PRANGE and E. SØNDERGAARD, Cholesterol and Polyenoic Acids in Tissues 319
ÖBRINK, K. J., Water Permeability of Isolated Stomach 229
OSCARSSON, O., Y. LAPORTE and A. LUNDBERG, Functional Organization of Dorsal Spino-Cerebellar Tract. I 175
OSCARSSON, O., Y. LAPORTE and A. LUNDBERG, Functional Organization of Dorsal Spino-Cerebellar Tract 188
PERNOW, B., and U. S. v. EULER, Effects of Substance P 265
PRANGE, I., H. DAM, G. KRISTENSEN, G. KOFOED NIELSEN and E. SØNDERGAARD, Cholesterol and Polyenoic Acids in Tissues 319
RÄIHÄ, N., M. J. KARVONEN and A. LAAMANEN, Permeability of Guinea Pig Placenta 245
SKRAMSTAD, K. H., Cholinesterases of Mice in Relation to Sex and Age 383
SØNDERGAARD, E., H. DAM, G. KRISTENSEN, G. KOFOED NIELSEN and I. PRANGE, Cholesterol and Polyenoic Acids in Tissues 319
SPERBER, I., and K. M. LINDAHL, Tubular Excretion of Histamine 13
STERNDORFF, I., and T. ASTRUP, Plasminogen Activator 250
STRÖMBLAD, B. C. R., Acetylcholine Splitting Enzymes in Salivary Glands 47
STRÖMBLAD, B. C. R., Supersensitivity and Amine Oxidase Activity in Denervated Salivary Glands 137
STRÖMBLAD, B. C. R., Tyramine as a Secretory Agent 154
STRÖMBLAD, B. C. R., Amine Oxidase in Salivary Glands 158
STRÖMBLAD, B. C. R., and N. G. EMMELIN, Sensitization of the Lachrymal Gland 171
WRETLIND, A., Utilization of D-Valine 119
ZERAHN, K., Oxygen Consumption and Sodium Transport in Frog Skin 300

Pag.
29
291
108
102
108
114
319
229
175
188
265
319
245
383
319
13
250
47
137
154
158
171
119
300